



WHEEL RAKE CARRIER

Published 05-06

Part No. 4702C

OPERATOR'S MANUAL



This Operator's Manual is an integral part of the safe operation of this machine and must be maintained with the unit at all times. **READ, UNDERSTAND, and FOLLOW** the Safety and Operation Instructions contained in this manual before operating the equipment.



ATENCIÓN!

LEA EL INSTRUCTIVO

Si No Lee Ingles, Pida Ayuda a Alguien
Que Si Lo Lea Para Que le Traduzca las
Medidas de Seguridad.



M&W

1020 South Sangamon Ave.
Gibson City, Illinois 60936
217-784-4261



TO THE OWNER/OPERATOR/DEALER

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!!

Read the safety messages on the implement and shown in your manual. Observe the rules of safety and common sense!



WARNING

TO AVOID SERIOUS INJURY OR DEATH:

1. READ AND UNDERSTAND OPERATOR'S MANUAL.
2. TRACTOR MUST BE EQUIPPED WITH ROLL-OVER PROTECTION (ROPS) AND SWAY CHAINS.
3. ALWAYS WEAR SAFETY GLASSES, SAFETY SHOES, AND SEAT BELT FASTENED TIGHTLY.
4. STOP TRACTOR, LOCK BRAKES, AND BLOCK UP OR SUPPORT IMPLEMENT SECURELY BEFORE WORKING UNDER RAISED COMPONENTS.
5. ALLOW NO RIDERS AT ANY TIME ON TRACTOR OR IMPLEMENT. FALLING OFF CAN KILL.
6. KEEP BYSTANDERS CLEAR OF MOVING PARTS AND WORKING AREA. KEEP CHILDREN AWAY!
7. DO NOT LIFT, LOWER, OR OPERATE UNLESS EVERYONE IS CLEAR OF IMPLEMENT.
8. USE INCREASED CAUTION ON SLOPES & NEAR BANKS AND DITCHES TO PREVENT OVERTURN.
9. LOCK LIFT LEVER UP FOR TRANSPORT. HAVE SMV SIGN VISIBLE. FOLLOW LOCAL LAWS.
10. USE PARKING STAND OR BLOCK UP WHEN UNHITCHING FROM TRACTOR.

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WARRANTY INFORMATION:

Read and understand the complete Warranty Statement found in this Manual. Fill out the Warranty Registration Form in full and return it within 30 Days. Make certain the Serial Number of the Machine is recorded on the Warranty Card and on the Warranty Form that you retain. The use of "will-fit" parts will void your warranty and can cause catastrophic failure with possible injury or death.

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SPECIFICATIONS

MODEL RC456

Weight (approximate) 585 Lbs.

Overall Width of Tool Bar w/Wings Extended 91"

Overall Length 178 1/2"

Hydraulics Two-way Hydraulics Required

Rake capabilities Two 4, 5, or 6 Wheel Rakes

Normal Tractor Speed 15 to 20 MPH

*Do not transport or operate at speeds greater than Normal Tractor Speeds.

INTRODUCTION

The M&W Wheel Rake Carrier has been engineered and built for ease of operation and long service life. The M&W RC456 Rake Carrier has been designed to transport and operate a pair of 4 Wheel, 5 Wheel, or 6 Wheel Rakes in a V-type configuration.

It is important that you thoroughly understand the operation of the wheel rake carrier before use. Read through this manual completely, watching especially for safety symbols (See Illustration Below) which will alert you to possible hazards. The word "Note" will alert you to special information such as specifications, techniques, reference information and other supplementary information. The word "Important" is used to point out a note which is of immediate and urgent nature.



Safety Symbol

It is the users responsibility to read the operator's manual and comply with all instructions pertaining to operation and maintenance. It is also the users responsibility to inspect the machine at regular intervals and repair or replace worn or damaged parts when continued use would cause damage or excessive wear to other parts.

The manufacturer reserves the right to make changes, specifications, or improvements without incurring obligations to add them to rake carriers sold before the changes.

When ordering parts for your rake carrier, please specify the part number and the name of the part as shown in the parts section. Please give the serial number of the rake carrier, which is located on the rear of the main frame tube, in all correspondence when referring to the rake carrier. Record the serial number and purchase date here for future reference.

Serial No. _____ Model _____ Purchase Date _____

Important: When this machine is traded or sold, make sure this manual accompanies the machine so future operators will have complete operating instructions and safety warnings available to them.

DECALS

These decals are installed for safety. They must be visible at all times and kept in good condition. The buyer of this machine assumes responsibility for maintaining these decals.

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PELIGRO

Si No Lee Ingles, Pida Ayuda a Alguien
Que Si Lo Lea Para Que le Traduzca las
Medidas de Seguridad.

LEA EL INSTRUCTIVO

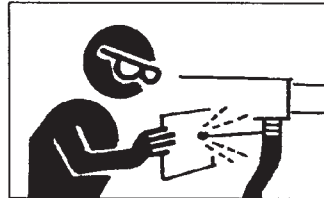


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WARNING

USE PAPER OR CARDBOARD TO CHECK FOR
LEAKS. **NEVER USE YOUR HAND.** IF OIL
PENETRATES SKIN, GANGRENE OR OTHER
SERIOUS INJURY COULD OCCUR.
GET IMMEDIATE MEDICAL ATTENTION.
See Operator's Manual.



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NOTICE TO OWNER

An OPERATOR'S MANUAL (with Repair Parts Listing) and
a WARRANTY REGISTRATION CARD were attached to
this implement during final inspection at the factory.
If they were not attached at the time of purchase, please
contact your selling dealer at once.

1. Read and understand Manual before operating the
implement.
2. Complete, sign, and mail the Warranty Registration
Card in today.

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IMPORTANT

For your safety and to guarantee optimum product reliability, always
use genuine M&W replacement parts. The use of inferior "will-fit" parts
will void warranty of your M&W implement and may cause premature
or catastrophic failure which can result in serious injury or death.
If you have any questions concerning the repair parts you are using, contact
M&W, 1020 South Sangamon Ave., Gibson City, IL 60936.

M&W

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DECALS

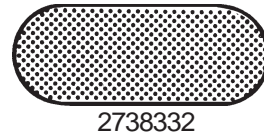
6 **M&W**

7 **RC456**

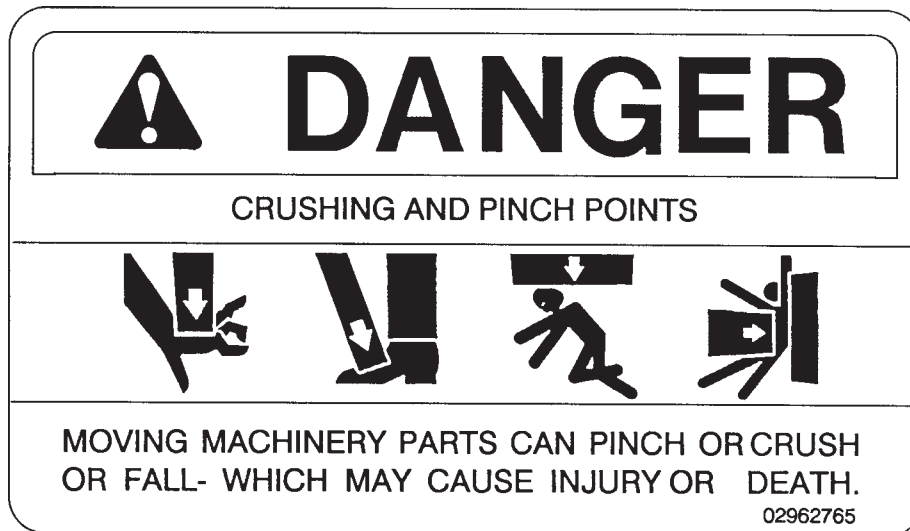
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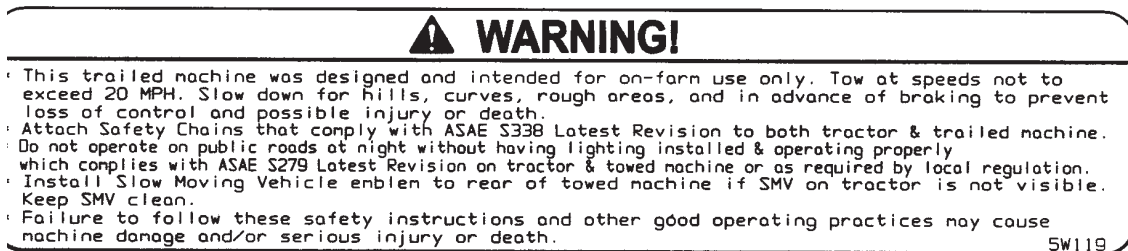
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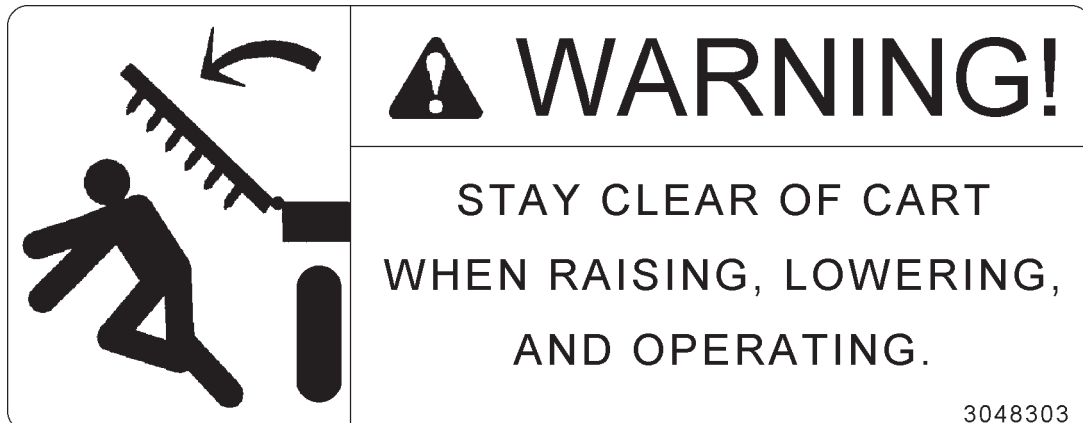
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DECALS

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WARNING!

1. Stay clear of cart when raising, lowering, and operating.
2. When using a new cylinder - first run cylinder in and out before mounting to cart. Air in the lines may result in lift mechanism dropping abruptly.
3. Before unfolding wings from transport position - be certain cylinder is properly installed and cart tongue is hitched to implement.
4. Use cart to carry original equipment only.
5. Never pull cart in transport position unless wings are folded to wing rest and pinned.
6. Failure to follow these warnings could result in injury or death.

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WARNING

- Tractor's rearing up may cause machine damage, injury, or death.
- Never use tractor without ROPS.
- Keep seatbelt fastened snugly to prevent falling off and injury. NO RIDERS.



- Add tractor front weight as needed to maintain safe steering traction.
- Slow down in curves and rough places.
- Stay away from soft banks and holes.

- Never start or accelerate suddenly to maintain safe steering traction.
- Do not lift heavy implement while going up steep slopes.

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WARNING

TO AVOID SERIOUS INJURY OR DEATH:

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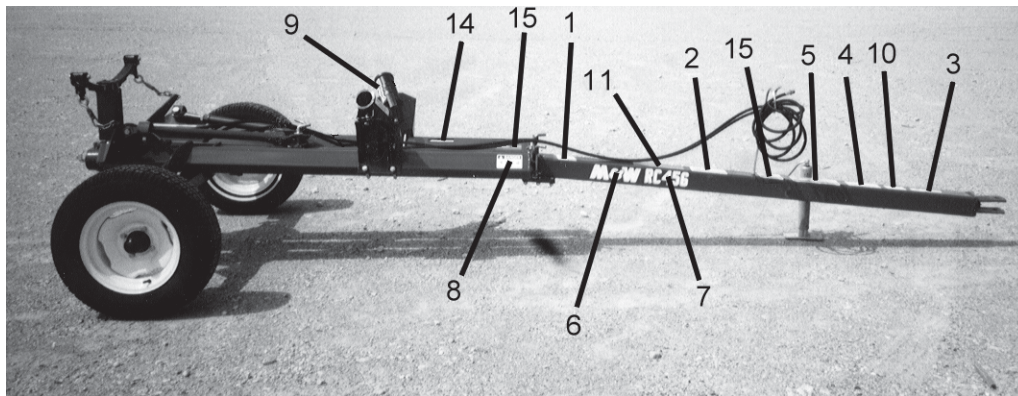
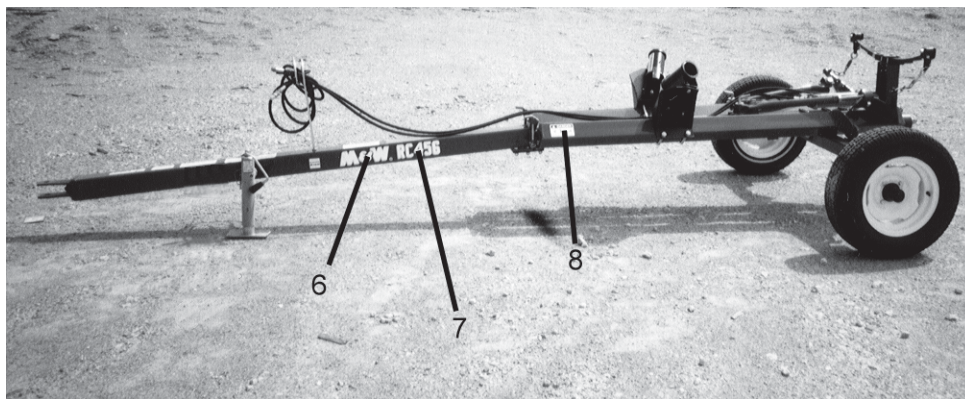
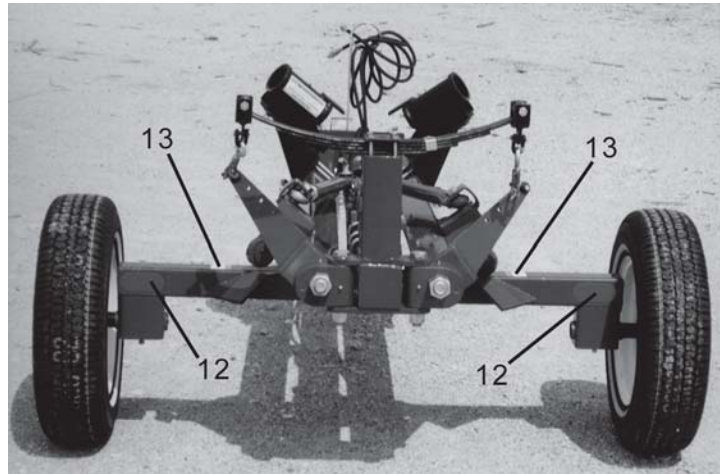


WARNING!

- * Never transport equipment without correctly installing transport lock. See operators manual for correct installation.
- * Failure to correctly install transport lock arms could result in equipment damage, serious injury or death.

3668308

DECAL LOCATION



ITEM	PART NO.	QTY.	DESCRIPTION
1	999200	1	Decal, General Warning
2	00771039	1	Decal, Replacement Parts
3	00763977	1	Decal, Notice to Owner
4	00725746	1	Decal, Peligro
5	3048304	1	Decal, Warning - Operate
6	2438345	2	Decal, M&W
7	3048302	2	Decal, Model RC456
8	02962765	2	Decal, Multi Hazard
9	3048303	2	Decal, Warning - Stay Clear
10	5W119	1	Decal, Warning - Speed
11	999001	1	Decal, Warning
12	2738332	2	Decal, Red Oblong Reflector
13	02962764	2	Decal, Pinch Point
14	00756059	1	Decal, Warning - Oil Leak
15	3668308	2	Decal, Warning Transport

NOTE: M&W supplies safety decals on this product to promote safe operation. Damage to the decals may occur while in shipping, use, or reconditioning. M&W cares about the safety of its customers, operators, and bystanders, and will replace the safety decals on this product in the field, free of charge (Some shipping and handling charges may apply). Contact your M&W dealer to order replacement decals.

SAFETY INSTRUCTIONS

CAUTION!



This machine should never be operated by anyone who is not familiar with the product and has not read the instruction manual. Do not operate the rake where people or animals are in the immediate area. Never allow passengers on the tractor while operating.

When changing the configuration of the rake, make sure everyone is clear of the folding and hinged parts and avoid pinch points which can cause serious injury.

CAUTION!



Make sure rakes are locked whenever they are in the folded position before working around the machine or before transporting.

IMPORTANT! The decals listed below are installed on the rake carrier for your safety. They must be visible at all times and kept in good condition. The buyer of this machine assumes responsibility for maintaining these warning decals. If they become damaged or unreadable for any reason, replace immediately.

ASSEMBLY

1. Layout and identify all parts. Many parts will be partially assembled by the manufacturer. The main frame and swing arms are already assembled, along with the tension spring and adjustment chains, and the hydraulic cylinder is installed by the manufacturer. The spindles and hubs are also installed on the axle.
2. Support the main frame assembly on sturdy stands and install the axle assembly under the main frame. Measure from the rear of the main frame 17" to 18" to the back side of the axle tube. Secure the axle with three 4" x 5 1/2" x 5/8" U-Bolts, lockwashers, and nuts (See Illustration 1).

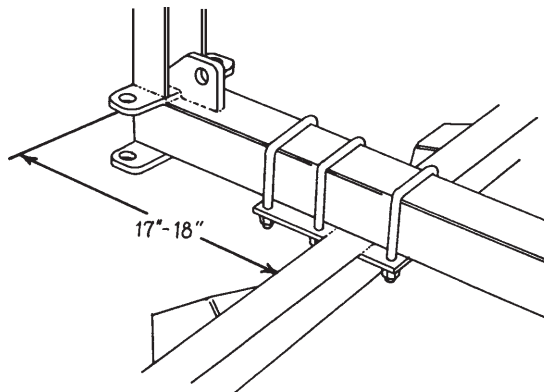


Illustration 1

The axle may need to be moved forward or backward until the caster wheels on the wings roll in the proper location on the axle ramps (See Illustration 2). Tighten the U-Bolts when axle is properly located.

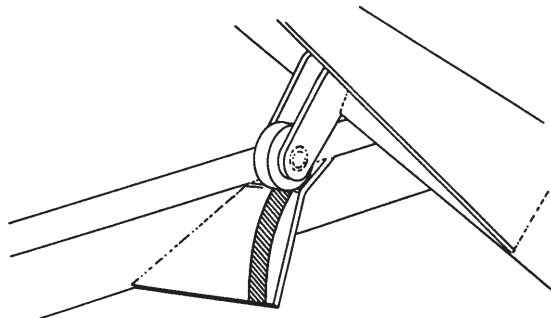


Illustration 2

3. Install the tongue on the main frame using three 5/8" x 2" bolts, nuts, and lockwashers. On some models, a reinforcing plate is used. If so, install the plate beneath the tongue and main frame using six 1/2" x 1 1/2" bolts, nuts, and lockwashers. Install a hose support on the top bolt as the tongue is installed. If the optional extended tongue is used, install the extension between the main frame and tongue using the bolts provided and install a second reinforcing plate if used.

4. Install the threaded rod hose holder in the threaded hole on top of the tongue. Install a 1/2" jam nut on the rod before installing. Tighten the jam nut after the rod is position.

5. Install the support jack on the tongue using the pin supplied.

6. Install the tire on the wheel rims supplied and install the rims on the hubs. Torque the four lug bolts on each wheel to 75 Ft-Lbs.

Note: The height of the tires used will effect the operation of the wheel rakes. It is recommended that 195 x 14" tires be used.

7. Two hydraulic hoses, 1/4" x 188" and one 1/4" x 192" are included. Connect the longer hose to the rear port of the cylinder using a 90° elbow. Connect the shorter hose to the front port using a 90° elbow. Route the hoses through the hose holder on the tongue. Install the restrictor swivel on the male end of one hose. When the cylinder is replaced or reinstalled, the ports must go to the left side of the carrier when facing forward.

Important: Do not operate without restrictor installed.

Before installing hydraulic lines, check for foreign material in lines. Keep hoses and fittings clean at all times. Be sure all connections are properly sealed to avoid leakage.

CAUTION! Do not exceed manufacturers maximum hydraulic system pressure at 2500 psi.



If the optional tongue extension is used, install the two 1/4" x 48" hoses included in the kit on the 188" and 192" hoses using the 1/2" NPT couplers provided. Install the restrictor fitting on the end of one extension hose.

WARNING! Always wear protective eye goggles and use a magnifying glass or hold a piece of wood on suspected leaks. Pinhole hydraulic leaks can penetrate skin. Do not touch.



Note: If fluid penetrates the skin, it must be surgically removed within a few hours by a doctor familiar with the form of injury or gangrene may result. Make sure the weight of the machine has been taken off the hydraulic cylinder before disconnecting hydraulic hoses.

8. Install the hose holder on the tongue center just forward of the cylinder using a capscrew and lockwasher. Secure the hoses on the holder with the clip, capscrew, lockwasher, and nut.

9. Install the rake mount assemblies on the wings, as shown, using two U-bolts, nuts, and lockwashers to secure each assembly.

Note: Left and right mounting heads are used. See the Parts List on page 10 for proper identification of left and right mounting heads (Part No. 6 & 6A).

Measure from the front edge of the wing to the center of the rake mount to determine the approximate location of the rake (See Illustration 3).

4 Wheel Rakes	35"
5 Wheel Rakes	25"
6 Wheel Rakes	13"

The settings on the previous page are only approximate settings. The final position on the wing is determined by the desired width of the windrow. Moving the rake mounts forward on the wing makes the windrow wider. Moving the rake mounts rearward makes the windrow narrower.

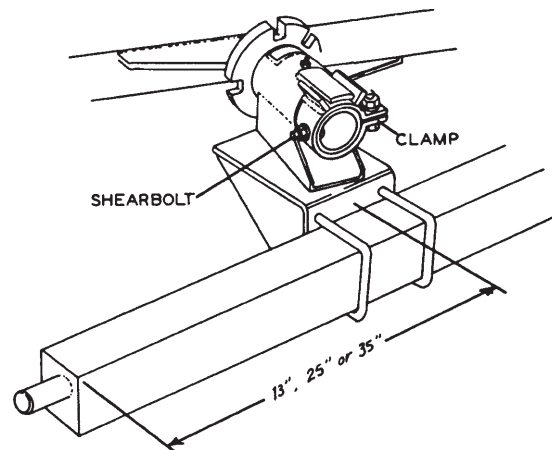


Illustration 3

10. Install the wheel rakes on the mount tube by inserting the rakes main frame tube into the tubes on the rake mounts. This operation can be made easier if the carrier is connected to the tractor tongue, hydraulics are connected and the wings are extended. Install the clamps on the rake tubes. Tighten the 1/2" x 1 1/2" bolts, nuts, and lockwashers snugly. The ears at the top of the clamp should be on either side of the tab on the mount tube so the rake can "float" as it works.

Important: When the rake is positioned correctly, drill a hole through the clamp and the rake tube and install a 5/16" shear bolt, lockwasher, and nut (See Illustration 3).

Before operating this machine, lubrication of specific parts must be completed. Lubricate the points listed before operating for the first time and periodically as shown in the chart (See page 7).

Before operation, check tightness of lug bolts and spindle setscrews.

OPERATION

Important: Before operation, the operator should be familiar with these operation instructions and operation of tractor. Do not allow an unqualified person or one under the influence of medication or intoxicating substances to operate the tractor.

1. Connect the machine to the tractor tongue using a 3/4" hitch pin with a retaining clip. The adjustable jack will allow the tongue to be raised or lowered during hookup. After hookup to the tractor, store the jack in the horizontal position.
2. Connect the hydraulic inlet and outlet hoses to the tractor hydraulic system.

CAUTION!



Make sure a restrictor is installed on one of the hydraulic lines. Failure to use a restrictor will allow the machine to fold and unfold rapidly and could result in damage to the machine, and injury to bystanders.

3. To lower the rakes to the working position, pull the transport pins for each wing and apply hydraulic pressure to retract the cylinder. The wings will spread apart and the rake will lower to the working position as the castor wheels move down the axle ramps. The transport pins can be stored in the raised position by installing clips in upper holes.

CAUTION!



Operate the hydraulic cylinder through the cycle a few times to expel all air through the system. Failure to fully charge the hydraulic system could result in injury when the rakes fall abruptly to the ground.

CAUTION!

Make sure the area around the machine is clear before lowering. Do not lower rakes when people or pets are near the rakes or folding mechanism.

4. Set the rake angle by repositioning the 5/8" bolt in the rake mounting bracket. Six holes are available for adjustments (See Illustration 4).

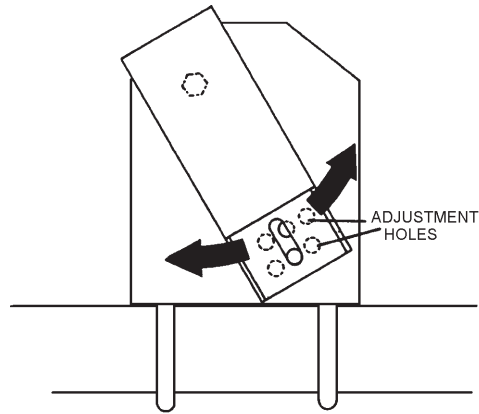


Illustration 4

See the rake operator's manual for more information on setting the rakes.

5. Working speed is normally 5 to 10 mph. Speed varies with different hay conditions or terrain. Consult the rake operator's manual for complete operation instructions.

6. To raise the rakes, apply hydraulic pressure to extend the hydraulic cylinder. When the wings are in the retracted position, install the transport pins in the frame to lock the wings in place.

Note: The wings must be adjusted so that both wings retract into the transport position at approximately the same time. With the rakes removed from the wings, disconnect the adjustable link between the sliding cylinder mount and the left wing. Clear the area around the machine and extend the cylinder until the right wing just retracts into the lock position. Manually retract the left arm to the same position and adjust the link until the pin drops into the pivot point. Turning the threaded rod end "in" will cause the wing to move towards the tongue. Secure the pin when the adjustment is complete (See Illustration 5).

CAUTION!

The linkage can be adjusted with the rakes installed **ONLY** if the left wing is locked in the transport position. If the wing is allowed to extend to the point where the caster wheel is on the axle ramp, the rake can fall rapidly and possibly cause an injury.

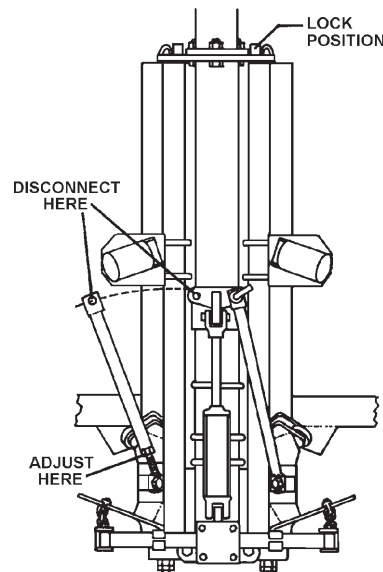


Illustration 5

ADJUSTING GROUND PRESSURE SETTINGS

7. Use this chart to adjust the rake ground pressure. When set properly, individual rake wheels should be light enough to float over the ground while maintaining a constant ground speed. Each adjustable chain is equipped with a threaded rod that is used to balance weight of the left and right side, and to make any fine adjustments. The chain has three flexible links. If the illustrated settings do not flatten or bow down the leaf spring as shown, then relocate the clevis on the second chain link and readjust.

CAUTION!



The threaded rod in the adjustable link should be adjusted so that no more than 3/4" of threads are showing (See Illustration 6).

CAUTION!



Never try to adjust spring tension with the rake in the working position. Raise the rakes to the transport position before making adjustments. Failure to do so could result in serious injury.

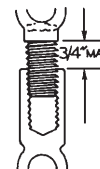
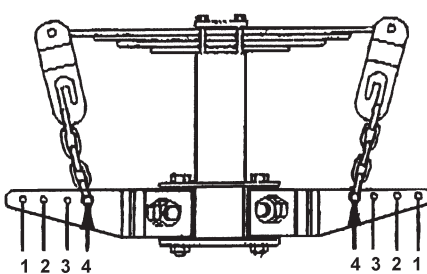
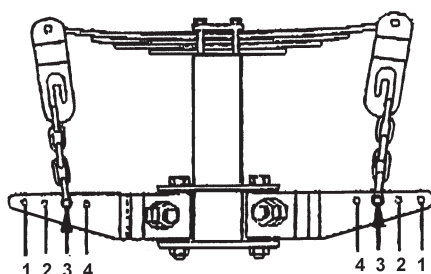
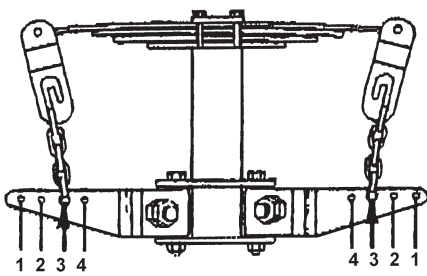
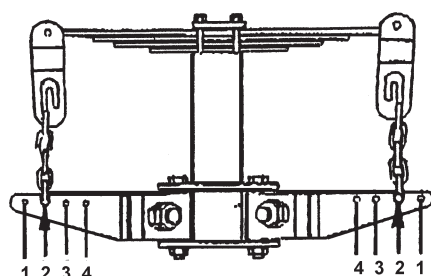


Illustration 6



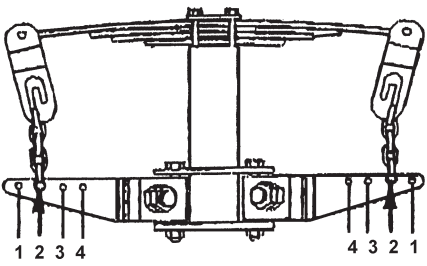
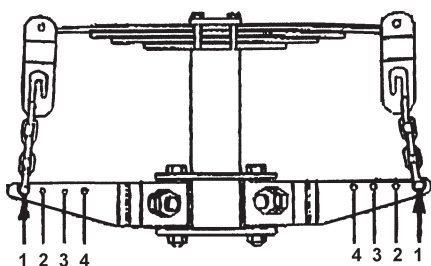
8 WHEEL RAKE SETTINGS

The chain clevis should be in holes 3 or 4 with the leaf spring slightly bowed up or flat.



10 WHEEL RAKE SETTINGS

The chain clevis should be in holes 2 or 3 with the leaf spring flat or bowed down slightly.



12 WHEEL RAKE SETTINGS

The chain clevis should be in holes 1 or 2 with the leaf spring bowed down slightly to bowed down.

Illustration 7

8. The width of the windrow can be adjusted by moving one or both rakes forward or backward on the wings. To do this, loosen the U-Bolts securing the rake mounts and reposition the mounts. Moving the mounts forward will widen the windrow. Moving the mounts back will make the windrow narrow. Extend the wings and check for clearance around the tires before operating.

When one rake is to be used alone, leave the locking pin in place on the wing not used and pull the pin securing the linkage between the sliding cylinder mount and the unused wing. The operation of the remaining rake is not affected.

TRANSPORTING

To transport, retract the wings until they are in place against the tongue and install the locking pins so the pins capture the lugs on the wings. Secure the pins in place with hairpin cotter pins.

CAUTION! Never transport rakes without locking pins in place.



Avoid sharp turns during transport to prevent contact between the rakes and the machine. Slow down when approaching trees, fences, or ditches to avoid damage to rakes.

CAUTION! When towing on public roads, a slow moving vehicle (SMV) sign should be installed on the tractor so it is visible to vehicles following. Warning lights should also be installed on the tractor so they are visible to other motorists. Comply with state and local safety requirements at all times.



MAINTENANCE

1. Check hydraulic hoses periodically for cracks, abrasions, or leaks. Replace defective hoses immediately. Replace worn or broken hoses and fittings with factory replacement parts only.
2. To extend the life of the hydraulic cylinder and hoses, store the machine under cover. If cover is not available, remove the cylinder and hoses and store under cover.
3. Check tightness of lug bolts and spindle setscrews after one hour of operation and every six months thereafter. Check tire pressure whenever maintenance is performed.

LUBRICATION

Lubricate all points before operating for the first time and periodically as shown in the chart below. Keep all lubrication fittings free of dirt and contaminants.

A	Double Wing Hinge	(1)	Every 8 Hours of Operation
B	Wing Caster Wheel	(1)	Every 8 Hours of Operation
C	Cylinder Slide Mount	(2)	Every 8 Hours of Operation
D	Wing to Axle Support (Top Surface of Axle)	(2)	Every 8 Hours of Operation
E	Rake Mounting Brackets	(1)	Every 20 Hours of Operation
F	Swivel Hitch	(2)	Every 20 Hours of Operation
G	Jack Crank	(2)	Every 6 Months of Operation
H	Wheel Bearing	(3)	Every 6 Months of Operation
(1) Grease zerk until excess escapes (2) Smear grease on contact surfaces (3) Clean and repack with grease			

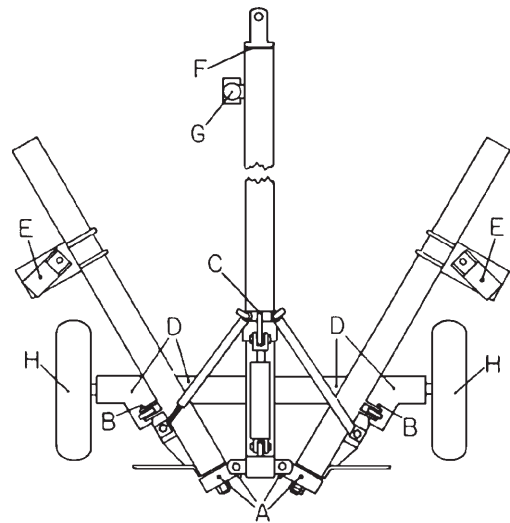


Illustration 8

M&W
LIMITED WARRANTY

1. LIMITED WARRANTIES

- 1.01. M&W warrants for one year from the purchase date to the original non-commercial, governmental, or municipal purchaser ("Purchaser") and warrants for six months to the original commercial or industrial purchaser ("Purchaser") that the goods purchased are free from defects in material or workmanship.
- 1.02. Manufacturer will replace for the Purchaser any part or parts found, upon examination at one of its factories, to be defective under normal use and service due to defects in material or workmanship.
- 1.03. This limited warranty does not apply to any part of the goods which has been subjected to improper or abnormal use, negligence, alteration, modification, or accident, damaged due to lack of maintenance or use of wrong fuel, oil, or lubricants, or which has served its normal life. This limited warranty does not apply to any part of any internal combustion engine, or expendable items such as blades, shields, guards, or pneumatic tires except as specifically found in your Operator's Manual.
- 1.04. Except as provided herein, no employee, agent, Dealer, or other person is authorized to give any warranties of any nature on behalf of Manufacturer.

2. REMEDIES AND PROCEDURES.

- 2.01. This limited warranty is not effective unless the Purchaser returns the Registration and Warranty Form to Manufacturer within 30 days of purchase.
- 2.02. Purchaser claims must be made in writing to the Authorized Dealer ("Dealer") from whom Purchaser purchased the goods or an approved Authorized Dealer ("Dealer") within 30 days after Purchaser learns of the facts on which the claim is based.
- 2.03. Purchaser is responsible for returning the goods in question to the Dealer.
- 2.04. If after examining the goods and/or parts in question, Manufacturer finds them to be defective under normal use and service due to defects in material or workmanship, Manufacturer will:
 - (a) Repair or replace the defective goods or part(s) or
 - (b) Reimburse Purchaser for the cost of the part(s) and reasonable labor charges (as determined by Manufacturer) if Purchaser paid for the repair and/or replacement prior to the final determination of applicability of the warranty by Manufacturer.

The choice of remedy shall belong to Manufacturer.

- 2.05. Purchaser is responsible for any labor charges exceeding a reasonable amount as determined by Manufacturer and for returning the goods to the Dealer, whether or not the claim is approved. Purchaser is responsible for the transportation cost for the goods or part(s) from the Dealer to the designated factory.

3. LIMITATION OF LIABILITY.

- 3.01. MANUFACTURER DISCLAIMS ANY EXPRESS (EXCEPT AS SET FORTH HEREIN) AND IMPLIED WARRANTIES WITH RESPECT TO THE GOODS INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 3.02. MANUFACTURER MAKES NO WARRANTY AS TO THE DESIGN, CAPABILITY, CAPACITY, OR SUITABILITY FOR USE OF THE GOODS.
- 3.03. EXCEPT AS PROVIDED HEREIN, MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO PURCHASER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE GOODS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE GOODS OR ANY BREACH OF THIS WARRANTY. NOTWITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, MANUFACTURER'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY PURCHASER OR OTHERS SHALL NOT EXCEED THE PRICE OF THE GOODS.
- 3.04. NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS WARRANTY OR TRANSACTIONS UNDER THIS WARRANTY MAY BE BROUGHT MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION HAS OCCURRED.

4. MISCELLANEOUS.

- 4.01. Proper Venue for any lawsuits arising from or related to this limited warranty shall be only in Guadalupe County, Texas.
- 4.02. Manufacturer may waive compliance with any of the terms of this limited warranty, but no waiver of any terms shall be deemed to be a waiver of any other term.
- 4.03. If any provision of this limited warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.
- 4.04. Applicable law may provide rights and benefits to purchaser in addition to those provided herein.

KEEP FOR YOUR RECORDS

ATTENTION: Purchaser should fill in the blanks below for his reference when buying repair parts and/or for proper machine identification when applying for warranty.

M&W Implement Model _____ Serial Number _____

Date Purchased _____ Dealer _____

ATTENTION:
READ YOUR OPERATOR'S MANUAL

M&W

An Alamo Group Company
1020 South Sangamon Ave.
Gibson City, Illinois 60936
217-784-4261

M&W®



TO THE OWNER/OPERATOR/DEALER

To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this Manual. The Table of Contents clearly identifies each section where you can easily find the information you need.

The OCCUPATIONAL SAFETY AND HEALTH ACT (1928.51 Subpart C) makes these minimum safety requirements of tractor operators:

REQUIRED OF THE OWNER:

1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
2. Provide Seatbelts that meet the requirements of this paragraph of this Standard and SAE J4C; and
3. Ensure that each employee uses such Seatbelt while the tractor is moving; and
4. Ensure that each employee tightens the Seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

REQUIRED OF THE OPERATOR

1. Securely fasten seatbelt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going - especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by the tractor manufacturer.
9. When the tractor is stopped, set brakes securely and use park lock, if available.

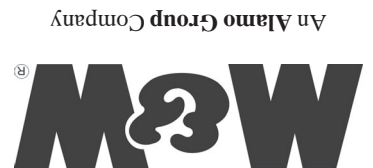
-
-
- ☒ **Keep children away from danger all day, every day...**
 - ☒ **Equip tractors with rollover protection (ROPS) and keep all machinery guards in place...**
 - ☒ **Please work, drive, play and live each day with care and concern for your safety and that of your family and fellow citizens.**



Wheel Rake Carrier - SOM - 05/06
Printed U.S.A.

Wheel Rake Carrier

P/N 4702C



M&W®

1020 S. Sangamon Ave.
Gibson City, IL 60936-9907

Please fold (do not tear), tape, and drop in any mailbox.

PLEASE FILL OUT OWNER WARRANTY REGISTRATION INFORMATION
SIGN, AND DROP LAST COPY IN ANY MAILBOX.

IMPORTANT!

TO PLACE THIS WARRANTY IN EFFECT,
THIS WARRANTY REGISTRATION MUST BE
FILLED OUT, SIGNED, AND MAILED WITHIN 30
DAYS OF DELIVERY DATE OF THIS MACHINE.
DEALER AND PURCHASER MUST SIGN.

ATTENTION: ANY CLAIM SUBMITTED TO SERVIS-RHINO®
WILL BE REFUSED UNTIL COMPLETED, SIGNED
WARRANTY REGISTRATION CARD IS ON FILE.

M&W® WARRANTY REGISTRATION INFORMATION

[illegible]

• I have informed the Purchaser of this product of Warranty terms, provisions, and procedures that are applicable, reviewed the contents of the Operator's Manual including safety equipment, safe operation, and maintenance, reviewed the Safety Signs on implement (and tractor if possible), shown the AEM Mower Safety Practices Video, and reviewed Purchaser's responsibility to train his operators in safe operation.

• **IMPLEMENTS:** I have explained that Deflectors, Chain Guards, or Solid Skirts must be maintained in good repair and installed except in areas where persons, vehicles, livestock, or other property will not be endangered by thrown objects and where such safety equipment would prevent the mower's reasonable performance of its assigned task.

• **DRIVELINES:** I have made certain that all driveline, gearbox, and other shields are in good repair and fastened securely in place to prevent injuries from entanglement or thrown objects.

• **HYDRAULIC MACHINES:** I have explained the necessity of using clean hydraulic oil, changing filters as instructed, stopping leaks, damage caused by operating with over-heated oil, caring for hoses, using hoses of proper rating, the necessity of maintaining the specified operating pressure, and the potential hazard of oil's penetrating the skin.

• **BOOM-TYPE or FOLDING-TYPE IMPLEMENTS:** I have explained that it is not possible to guard against thrown objects when the head is lifted off ground and that operator is responsible to watch out for persons in the area. I have explained that the lifted mower head or boom can contact overhead obstructions with damage to cables and telephone lines and possible injury. I have explained that the extended head or boom or retracted boom can contact power lines with resulting electrocution injury or death and that operator is responsible for keeping clear of such hazards.

Dealer's Signature _____ **Date** _____

I have been instructed on the paragraphs above, received and have been shown the AEM Mower Safety Practices Video and have been instructed in the contents of the Operator's Manual including safety signs, safety equipment, safe operation, maintenance, and the potential hazards of unauthorized alteration or modification of the product. I have been informed of the warranty provisions and know that the warranty is not in effect until this form is received by Alamo Group.

I understand the Implement Guarding statements above and the potential hazards of operating without such guards. I understand that the operator is responsible for the safety of others in the area. I have examined the product and accept it as being complete and in satisfactory condition with all required guards.

DEALER COPY

Purchaser's Signature _____ **Date** _____

**PRE-DELIVERY SERVICE
CHECK AND ADJUST OR LUBRICATE AS REQUIRED**

See Operator's Manual for Details

Inspection Performed - Warranty and Safety Procedures Explained - Installation Complete

LUBRICATION & HYDRAULICS

- ☐ Gearboxes & Speed Increaser (Oil Levels)
- ☐ Hydraulic Oil Level (External. Tank)
- ☐ Tractor Hydraulic Oil Level
- ☐ Hydraulic Hoses (No Kinks, Binds, or Leaks)
- ☐ Hydraulic Hose Connections are Tight (No Leaks)

MOWER

- ☐ Spindle And Motor Bolts Properly Torqued
- ☐ Spindle Housing Bearings are lubricated
- ☐ Blade Carrier Bolts Properly Torqued / Retaining Pin In Place
- ☐ Mower Cutting Height And Level Adjusted
- ☐ Belt Alignment And Tension Adjusted
- ☐ Driveline Clutch (Torque Limiter) (Adjust And Run In)
- ☐ All Hardware Properly Torqued
- ☐ Tire Air Pressure / Lug Nuts (Correct Torque)
- ☐ Wheel Bearings (Check, Grease, And Preload)

ATTACHMENTS & INSTALLATION

- ☐ Thrown Object Deflectors Front And Rear
- ☐ Correct Blade Rotation Direction
- ☐ Wing transport locks and latches
- ☐ Mower head transport support bracket
- ☐ All Bolts - Pins And Nuts (Proper Torque)

MOWER TO TRACTOR CONNECTION

- ☐ Draw Bar Length (Check And Set)
- ☐ Axle Height (Adjusted)
- ☐ Cutting Height (Adjust)
- ☐ Mount Kit Pre-Operation Check Complete
- ☐ Mower Wing (Adjust Level With The Center)
- ☐ Mower Wing (Check For Proper Raising Operation)
- ☐ Pull Type Hitch (Height Adjustment)
- ☐ Mounting Hardware Properly Torqued

SAFETY ITEMS

- ☐ Protective Shields (Operation And Installation)
- ☐ S.M.V. Emblem (Installed)
- ☐ Neutral Safety & Cut - Off Switches work properly
- ☐ Safety Decals (Installed in good condition)
- ☐ Operator's Manual (Supplied in Canister)
- ☐ AEM Mower Safety Manual (Supplied in Canister)
- ☐ **AEM Mower Safety Video has been shown to Purchaser**

Pur. Intitials

- ☐ **AEM Mower Safety Video has been presented to Purchaser**

Pur. Intitials

Purchaser's Signature _____ **Date** _____ **Dealer's Signature** _____ **Date** _____

M&W® WARRANTY REGISTRATION INFORMATION

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CUSTOMER COPY

Purchaser's Signature _____ **Date** _____

**PRE-DELIVERY SERVICE
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Inspection Performed - Warranty and Safety Procedures Explained - Installation Complete

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Pur. Intitials

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Purchaser's Signature _____ **Date** _____ **Dealer's Signature** _____ **Date** _____